



CITY OF HAYWARD AGENDA REPORT

AGENDA DATE 7/28/98

AGENDA ITEM 7

WORK SESSION ITEM _____

TO: Mayor and City Council
FROM: Director of Public Works
SUBJECT: **HESPERIAN BOULEVARD FIBER OPTICS PROJECT:
APPROPRIATION OF FUNDS AND AUTHORIZATION FOR
PROFESSIONAL SERVICES AGREEMENT WITH KIMLEY-HORN AND
FOR AGREEMENT WITH THE ALAMEDA COUNTY CONGESTION
MANAGEMENT AGENCY**

Recommendation:

It is recommended that the City Council:

- Approve the appropriation of \$168,000 from the Transportation System Improvement Fund for the Hesperian Boulevard Fiber Optics project, of which \$116,000 will be reimbursed to the City through Transportation for Clean Air grant funds.
- Authorize the City Manager to execute an agreement for Professional Services with the firm of Kimley-Horn for Fiber Optics Design and Construction Support Services for the above project, and for Construction Support Services for the current Fiber Optics Project on West **Winton** Avenue.
- Authorize the City Manager to execute a Transportation for Clean Air Funds Transfer Agreement with the Alameda County Congestion Management Agency.

Background/Discussion:

For fiscal year 1998/99, the City of Hayward has received a grant from the Bay Area Air Quality Management District's Transportation for Clean Air (TFCA) program. The grant of \$116,000 will be used to design and install a fiber optics traffic signal interconnect system on Hesperian Boulevard. Over the past few years, the City has received TFCA grants for similar improvement projects on West **Winton** Avenue and on "A" Street, as well as for a citywide arterial management program.

This project will complete the interconnection and communication aspect of the Hesperian Boulevard arterial system. As is the case with the West **Winton** project, the proposed signal interconnect system will be a hybrid system using the fiber optics cable as the communication backbone, while keeping the existing intersection-to-intersection connections intact. In this manner, the existing copper **hardwire** will be used to interconnect the local signal controllers, while the fiber optics portion will allow communications to the on-street master signal controller. Additionally, video signals from the video detection system, which is being installed by the City under the **Hesperian/Industrial** Intersection Improvement project, will be carried live to the City's traffic operations center. The resulting system will allow optimum coordination of traffic signals on Hesperian Boulevard currently being studied under a separate

Congestion Management Agency (CMA) project. Since Hesperian Boulevard is a critical north-south route through Hayward, the arterial management system on this route will help to ensure that Hesperian Boulevard is operating in the most efficient manner. Finally, the project will help complete another leg of the City's fiber optics backbone for City communications between facilities.

The first step in the implementation of the above project is project design. When the City last interviewed various engineering firms for several traffic signal projects, Kimley-Horn was selected as the most qualified in fiber optic design and thus was selected for the West Winton Avenue Fiber Optics project. That project also resulted in the development of a fiber optic master plan. Because of their superior qualifications, as well as their knowledge gained from preparing the fiber optic master plan, Kimley-Horn was selected by staff to design this continuation of our fiber optic traffic interconnect system. Their proposal includes design and construction services and, in addition, includes some construction support services needed but not covered in the original consultant agreement for the West Winton Fiber Optics project. The not-to-exceed cost of the Kimley-Horn proposal, including the design and construction support for the Hesperian Boulevard Fiber Optics project and construction support for the Fiber Optics on West Winton Avenue project, is \$28,000. Staff has reviewed the proposal and finds the costs reasonable for the required services.

Finally, in order for the City to receive reimbursement from the TFCA grant funds for the Hesperian Boulevard Fiber Optics project, the City will need to execute a standard fund transfer agreement with the CMA. Staff requests that the Council give the City Manager the authority to sign this agreement and any associated documents, as necessary.

Project Cost/Funding:

Estimated project costs are as follows:

Design/Administration	\$ 37,000
Construction	116,000
Inspection and Testing	<u>15,000</u>
TOTAL	\$ 168,000

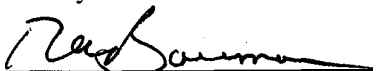
Since the Hesperian Boulevard Fiber Optics project was not identified in the recently approved 1998/99 Capital Improvement Program, funds for the project need to be appropriated. Of the total \$168,000 project cost, \$116,000 will come from the TFCA grant, with the remaining \$52,000 provided by the City. Sufficient funds are available in the Transportation System Improvement Fund for the appropriation.

Schedule:

The proposed schedule for the Hesperian Boulevard Fiber Optics project is as follows:

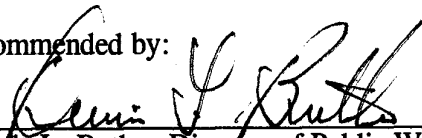
Design completion	October 1998
Advertisement	November 1998
Award	January 1999
Begin work	February 1999
Project ends	June 1999

Prepared by:



Robert A. Bauman, Deputy Director of Public Works

Recommended by:



Dennis L. Butler, Director of Public Works

Approved by:



Jesús Armas, City Manager

DRAFT

JVB 7/15

HAYWARD CITY COUNCIL

RESOLUTION NO. _____

Introduced by Council Member _____

RESOLUTION AUTHORIZING THE CITY MANAGER
TO EXECUTE AGREEMENTS IN CONNECTION WITH
'THE HESPERIAN BOULEVARD FIBER OPTICS
PROJECT, PROJECT NO. 5182

BE IT RESOLVED by the City Council of the City of Hayward that the City Manager is hereby authorized and directed to execute on behalf of the City of Hayward the following agreements:

1. An agreement for professional services with Kimley-Horn for Fiber Optics design and construction support services for the Hesperian Boulevard Fiber Optics Project, Project No. 5182, and for construction support services for the current Project on West Winton Avenue in an amount not to exceed \$28,000, in a form to be approved by the City Attorney; and
2. A Transportation for Clean Air Funds Transfer Agreement with the Alameda County Congestion Management Agency, in a form to be approved by the City Attorney.

IN COUNCIL, HAYWARD,, CALIFORNIA _____, 1998

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSTAIN:

ABSENT:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

City Attorney of the City of Hayward

DRAFT 7/15/98

HAYWARD CITY COUNCIL

RESOLUTION NO. _____

Introduced by Council Member _____

RESOLUTION AMENDING RESOLUTION 98110, AS
AMENDED, THE BUDGET RESOLUTION FOR
CAPITAL PROJECTS FOR FISCAL YEAR 199899,
RELATING TO AN APPROPRIATION OF FUNDS FOR
THE HESPERIAN BOULEVARD FIBER OPTICS
PROJECT, PROJECT NO. 5182

BE IT RESOLVED by the City Council of the City of Hayward that
Resolution No. 98-110, as amended, the Budget Resolution for Capital Projects for fiscal
year 199899, is hereby further amended by approving an additional appropriation of
\$168,000 from the Transportation System Improvement Fund, Fund 420, for the
Hesperian Boulevard Fiber Optics Project, Project No. 5 182.

IN COUNCIL, HAYWARD, CALIFORNIA _____, 1998

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSTAIN:

ABSENT:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

City Attorney of the City of Hayward